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UNBEATABLE COMBINATION. Rootstocks that thrive where others die. Variety proven superior by adequate trial. (Giblin Cling), ripening with Phillips this year—usually few days later. No gumming.

• KIRKMAN NURSERIES, Bethamy, California



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RECORDED



U. S. Department of Agriculture

Miss Newman

*Mr. H. P. Gault
U. S. D. A.,
Washington, D. C.*



Exceedingly vigorous "Almonds A," isolated from University test block for hopeful nematode resistance. Seedling progeny subjected to cross pollination (shown above) has shown nematode infestation, although without apparently affecting its remarkable vigor.

Even without complete resistance to nematode, it should, as a root-stock, produce orchards much superior to usual run of almond root stocks.

PRICES OF NEMATODE RESISTANT SEED, ETC.

The nematode resistant seeds available for distribution by us at this time are Shalil P. I. No. 36485, Yunnan P. I. No. 55885, and "Almond A."

Shalil (P. I. No. 36485) produced at Madera (non-isolated), \$25.00 per thousand, \$3.00 per hundred.

"Almond A," produced at Madera (non-isolated), \$25.00 per thousand, \$3.00 per hundred.

Shalil (P. I. No. 36485) and Yunnan (P. I. No. 55885), Bethany production (more than three miles isolation from commercial peach or nectarine varieties), \$35.00 per thousand, \$4.50 per hundred.

Germination Guaranteed, i.e., additional seed supplied to offset any non-germinating percentage. We supply germination instructions.

Seedlings of the two above species, for delivery January, 1940:

From Madera seed, \$50.00 per thousand.

From Bethany seed, \$70.00 per thousand.

Seedling sizes can be governed by spacing or crowding. No extra charge for 6 to 8 foot height except extra packing material and transportation.

June Buds—for delivery January, 1940: \$150.00 per thousand nursery run, less 20% from Madera seed. \$200.00 per thousand ½" caliper and over, less 20% from Madera seed.

Orders booked now can be delivered from California, Texas, Tennessee, or Georgia—all from California grown seed.

Multiple dormant buds inserted up to 6 ft. height from ground (for weeping or other ornamental varieties), \$30.00 per hundred. Four dormant buds per tree. Delivery, January, 1940.

TERMS

Seed orders for less than \$50.00 check with order; immediate delivery if desired. Larger seed orders and other items quoted, 25% with order, balance at delivery.

We accept adequate responsibility for trees proving untrue to label; and follow each commercial delivery into its first year's growth in customer's orchard with highly trained men to correct any possible variety errors that may have occurred in handling and planting, thus assuring each planter 100% accuracy when orchards come into bearing.

(All extra large planting, like Tagus 3,000 acres, depend upon this Kirkman assurance.)

We distribute free promising new varieties for widespread trial before recommending planting in quantities, and supplying of first commercial planting, of so tested new varieties, at a nominal price to those who will cooperate in its introduction. By this program we have thus tried out and introduced cling varieties representing approximately one-half of the nursery trees now being planted by cling growers.

"We owe you much for this plan for benefitting the whole Fruit Industry of the State. You are, in my opinion, doing a great work for the State of California in sending out promising new varieties of fruits for tests. Every Californian, now and in the future, will be benefitted by this test, and the Fruit Industry built up on a solid basis."

—LUTHER BURBANK.



Shalil seed being harvested at Kirkman Nurseries property—Madera, Calif. The trees at five years old grow to 18 or 20 feet in height.

KIRKMAN NURSERIES, Bethany, California

Phone: Telegraph Tracy 90-52



WORLD'S COME-BACK RECORD

Tree on left, 17-ft. Gaume Cling, three years from bud, on Yunnan rootstock. Owner Ruhl, of Delhi, California, on left, states it bore at the rate of 14 tons per acre this season. It is a replant where nematode killed original tree. On right, Kirkman looking into 16-year-old tree of original planting.

TO THE TRADE

FIFTY YEARS AGO this fall the late Wm. T. Kirkman, Sr., established our first nursery plant in California.

Our customers, and others who indicate they would enjoy it, will receive our Golden Jubilee pamphlet a little later.

Our annual offering to the Trade this season includes our usual line of all the best Commercial Varieties of Pear, Apple, Cherry, Prune, etc., on the usual root stocks in Yearling grades, and a fine supply of Peach, Almond, Apricot and Plum in both Yearlings and June Bud stock—totalling about 300,000 trees.

Our phyloxera free Grape Nursery location in Madera County enables shipment everywhere without disinfecting. This season's planting is about 800,000 cuttings.

PRICES

Present depressed conditions make it advisable to bid unusually attractive wholesale prices for dealers orders. **Special quotation** will be made on your complete want list. We solicit wholesale trade on the basis of a satisfactory profit to you, and wholly satisfactory results to the ultimate planters.

Mail estimate of requirements. We will quote immediately.



Nematode resistant seedling of wild peach species, five months after planting seed—August 1, 1938, showing Foreman Sidney Hunt—twenty-two years of employment with Kirkman Nurseries.

Mr. Hunt is standing between two rows of P.I. No. 36485 (Shalil). Next row to left is Yunnan, P.I. No. 55885, and on extreme left, Bokhara.

On the extreme right are Lovell seedlings, June budded in May.

These nematode resistant seedlings shown are high budded—four dormant buds each, for permanent bracket branches, and will be used in orchard planting in January, 1939. The seedlings will of course be cut back to the highest of the dormant buds—about sixteen inches above the ground.

KIRKMAN NURSERIES • Bethany, California • San Joaquin

TOMORROW'S ORCHARDS

Burbank, Hatch, Thompson, Peak, Halford, Giblin, Sharpe and others have made California horticulture famous with their new and far better varieties, but in many California localities, where climatic conditions are ideal, fruit growing is no longer satisfactorily profitable BECAUSE OF WORN OUT SOILS OR DEVASTATING INFESTATION OF PESTS.

Now scientific research has brought the greatest of all advances in California's fruit industry history.

Through years of domestic and foreign research, the far flung arm of the United States Department of Agriculture has gathered inestimable quantities of plant materials for experimentation and further research. From these invaluable efforts the most notable gift to California's stone fruit industry is the importation of wild peach species—especially P. I. No. 55885 from China, and P. I. No. 36485 from India, which are astonishingly vigorous, and which exert complete resistance to the ravages of nematode (eel worm), the pest that is tragically reducing productivity and quality in steadily increasing areas of the state's heretofore most productive fruit districts.

Demonstrations have proven that these remarkable root stocks are not retarded in the slightest degree by prevalence of nematode, and, of monumental importance EVERYWHERE, whether there is nematode infestation or not, they greedily search for—and find astonishing quantities of plant nutrient where other rootstocks succumb to malnutrition. This is outstandingly demonstrated even when used as replants where diseased or worn out trees are replaced.

Apparently no amount of fertilization will induce our usual root stocks to compete successfully with these wild relatives of our domestic peach, innured to hardship as they are through the countless centuries of slow migration and adaptation.

Most interesting of all is the remarkable performance of our commercial varieties when budded on to these wild root stocks. Considering their unequalled vigor usual pruning method will be revised. With intelligent pruning cooperation of owners it is apparent that new, all-time high in tonnage and quality will invariably result.

Conscientious inspection and quarantine efforts of the Federal, State and County Agricultural Departments have not resulted in any apparent retarding of the steadily relentless spread of the destructive microscopic worm. It has been freely forecasted that in time nematode would double the cost of California fruit production in stone fruit and some other important varieties—if not, in fact, completely wipe out the industry in large areas.

For more than a quarter of a century we have done everything possible toward securing scientific investigation and experimentation to the end now apparently achieved by the University of California in cooperation with the United States Department of Agriculture for the stone fruit industry, and for the nurseries and orchards of California.

The first tangible headway in Nematode Resistance was made on Kirkman Nurseries property near Modesto, in 1928, by the University of California. Bokhara proved to be highly resistant in comparison with all others. Other highly resistant peach varieties have been discovered by the University; most notably Shalil P. I. No. 36485, brought by the United States Department of Agriculture from India, and the two Yunnans, P. I. No. 55885 and No. 55886, brought by the U. S. D. A. from China, and three strains of Myrobolan plum.

Last season we purchased all of the seed of these nematode resistant varieties that were available from Experimental Stations at \$25.00 per thousand. These we planted, together with our own supply. All of these trees are sold for this winter's planting—except small quantities we are reserving for the experimentation of those who may be interested.



BETHANY ISOLATED NURSERY SEEDS PLANT

The world's first 100-acre "factory" designed to keep pure fruit seed strains PURE. No cross pollination with commercial peach or nectarine varieties will lessen the inherent resistance of P. I. No. 55885 (Yunnan Cling), from China, shown above with Bill, the 3rd.



**MODERN
ROOTSTOCKS
for
CALIFORNIA
HORTICULTURE**

Showing effect of P.I. No. 36485 with Peaks Cling—
Peaks portion 2½ years old—limb only 2¾" cali-
per at base, 103 peaches, unthinned, all but four
over 2⅜" caliper (No. 1 canning grade).